

# ANNUAL REPORT

1995

Armed Forces  
Institute of Pathology

Washington, D.C.



# NATIONAL MUSEUM OF HEALTH & MEDICINE, AFIP

Adrienne Noe, Ph.D.  
Acting Director  
Date of Appointment -September 1995

## OFFICE OF THE DIRECTOR

### MISSION/ORGANIZATION

The Office of the Director oversees the general activities and governance of the Museum and provides policy, technical, and scientific direction. This office also directs all planning activities for the site, facility, and programs of the new museum that is planned for the National Mall. Activities handled within the office are external relations, governmental affairs, press and public relations, and institutional development. The office works with print and broadcast media, congressional offices, and local, national, and community organizations to encourage contact with and coverage of AFIP's National Museum of Health and Medicine. We seek to emphasize the Museum's focus on critical public health issues, the importance of the Museum as a bridge between biomedicine and the general public, the Museum's role in helping to recruit the health professionals of tomorrow, and the Museum's research programs in medical history, medical anthropology, the epidemiology of chronic disease, human diet and nutrition, art in medicine, medical imaging, and other areas. The office provides general supervision to the Division of Operations and Programs, the Division of Public Programs and Exhibition, and the Division of Collection and Research. The Office of the Director communicates and coordinates with the American Registry of Pathology (PL 94-361) and the National Museum of Health and Medicine Foundation (PL 103-337) for institutional development.

### STAFF

- Richard Levinson, M.S., Community Relations Specialist  
(D) Marc S. Micozzi, M.D., Ph.D., Director  
Adrienne Noe, Ph.D., Acting Director, Assistant Director for the Division of Collection and Research  
Theresa Strong Garrard, Director's Administrative Assistant

Two major changes occurred in Museum organization in 1995. In April, the Museum reorganized into two divisions: Public Programs and Exhibitions, and Collections and Research. This was done to accommodate increasing promotional and educational challenges and to respond to opportunities to promote the use of the Museum and its research and other resources. In September, Marc S. Micozzi, director, left the Museum and Adrienne Noe, Ph.D., was appointed acting director.

## DIVISION OF PUBLIC PROGRAMS AND EXHIBITIONS

The division directs and coordinates operational and interpretive components of the Museum, including administration, exhibitions, public programs, educational tours, professional training, facilities use, and related activities. Division staff work with governmental agencies, professional

associations, museums, and individuals to develop new collecting and interpretive strategies that promote greater public health and health education; staff members also work with the National Health Sciences Consortium to develop national educational outreach programs.

## DIVISION OF OPERATIONS AND PROGRAMS

### MISSION/ORGANIZATION

The division directs and coordinates operational and interpretive components of the Museum, including administration, exhibitions, public programs, educational tours, professional training, facilities use, and related activities. Division staff work with governmental agencies, professional associations, museums, and individuals to develop interpretive strategies that promote greater public awareness of medical history, the history of disease, public health, and health education.

### STAFF

Lisa Berndt, M.A., Designer  
Sarah Carey, B.A. Exhibits Specialist  
Brigid Corsaro, Visitor Services Representative  
Raquel Cuadro, Visitor Services Representative  
Angela Exum, Secretary  
Katherine J. Freed, M.A.T., Visitor Services Manager  
Kathryn A. Goat, M.A.T., Public Programs Coordinator  
Robert I. Goler, M.A., Chief of Operations and Public

#### *Programs*

Jeanne Levin, B.S., Tour Programs Manager  
Richard Levinson, M.A.T., Community Relations Specialist

#### *Security Guards (contract)*

Gerald Foster  
Louis Golden  
Gamiel Gooding  
Ivan Gray  
Rossevelt Hite  
Vernell Harrison  
Eddie Pressley  
Regina White

#### *Docents*

Dr. Ed Beeman, Nancy Bretz, Dr. Merlin Brubacker, Dr. Irving Cashell, James J. DePersis, Dr. Jason Geiger, Barbara Holts, Lucie Humphrey, Regina Hunt, Albert Jacobs, Octavia Johnson, Sol Pargament, Colleen Pettis, Anne Pollin, Dr. Edward Rea, Dr. Stacy Rollins, Jr., Enid Rosen, Dr. George Sharpe, and Ms. Rose Zimmerman.

#### *Docents in Training*

Catherine E. Bonomo, Evely R. Foley, Dr. Ira Green, Shirley Ross Pyke, and Dr. S. Stephen Schiaffino.

#### *Interns*

Helen Cho, Stephanie Lehman, Sabine Marx, Betty R. Daschel, and Lesly Steinman.

#### *Volunteers*

Dr. Don Chakley, Shawn Garrard, Radha Gunupati, Jhumka Gupta, Nancy Leverenz, Marcus Ring, Deanna Crouse, Sasha Peil, Dr. S. Stephen Schiaffino, and Dr. Ed Beeman.

## VISITOR SERVICES

*Attendance:* Overall attendance at the Museum in 1995 was 42,318. The Museum was closed for 10 days due to electrical outages, snow days, and government furlough. In addition, the Museum had reduced services, including no guided tours for 6 days while carpet was installed in the exhibition gallery. Special events include programs by the Museum for a general public audience, receptions for organizations with related missions of the Museum, meetings or courses offered by other divisions of the AFIP, and meetings from other units of WRAMC.

### Category Number

General Attendance .....	28,934
Tours .....	7,639
Special Events .....	7,745

Analysis of attendance indicates general development in the following areas. Two hundred forty-one groups attended the Museum for a guided tour. This is an increase of nearly 10%. The docents providing the tours subsequently have contributed additional hours. The number of visitors participating in scheduled tours increased by 8% for the second consecutive year. In 1995, unscheduled tours totaled 8,193 of the general attendance figure. This reflects an increase by 36% since 1994. Target marketing as described later in the report is responsible for this success. A decrease of 18% occurred in the number of walk-in visitors; the number of days the Museum was closed and difficulty with publicity may account for a portion of the decrease.

*Visitor Services staffing:* In 1995, the Museum switched from a guard service to customer service-based staffing. The addition of one full-time employee and three part-time employees provides visitors with additional information and educational programming. Security is provided by a remote camera system and emergency coverage by the WRAMC Provost Marshall's office. Visitor feed back has been positive to this change. The Visitor Service staff are ever vigilant to insure the safety of the collections and Museum visitors.

*Physical Plant:* The Museum lobby has been upgraded to allow for a more effective orientation experience for visitors. A new Information Desk was installed with an upgraded security system. An information board, designed to accommodate changing updates, was also installed. Photographs of collection items, highlighting past and current efforts to understand and promote health, now adorn the lobby walls. The main exhibit gallery and temporary gallery were both carpeted, and exhibits were reorganized to enhance visitor flow through the space.

## TOUR PROGRAM

Docents contributed 3,142 hours for guiding tours and training.

*Docent training:* As indicated in the attendance figures above, the Tour Program has been quite successful in target marketing with a simple brochure mailed to area schools, articles in the scout newsletters, and an annual Educators' Open House.

Additional docent staff addressed the increased requests for tours. New docents were recruited by sending letters to newspapers, schools, and retired employees associations. Eight applicants were chosen from the 15 applicants and 38 requests for information. Docent training began in September and faculty for docent training included staff from AFIP, WRAMC, USUHS, and Museum staff. Topics covered included anatomy/physiology, AIDS, history of medicine, evolution of medical equipment, Civil War medicine, visiting behind the scenes in Museum collections, and AFIP laboratories. The trainees were also given homework and handouts, followed tours, and gave several 5-minute tours to further prepare them. Training will conclude in February 1996, and the docents will begin providing tours during the Museum's busiest visitation season.

Ongoing monthly training sessions are an important part of maintaining quality products. The sessions in 1995 included: "From Inquiry to Critical Thinking," Judith Landau, George Washington University, Museum Education Program (January); business meeting (February); "Construct-

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ing the Museum Experience," Judith Landau (March); "Using Interpreters with a Guided Tour," Sign Language Associates (April); Docent/Volunteer Appreciation Day, Smithsonian tour (NMAH) and lunch (May); business meeting (August); "History of Medicine and Disease," Dr. Robert Joy, professor of the history of medicine, USUHS (September); Tour of the National Archives with Marcus Ring (October); "Medicine and Shakespeare," Dr. Frank Miller (December).

## COMMUNITY OUTREACH

The Museum participated in "America's Night Out" in Rosemary Hills with a small table-top exhibition. Museum docent Barbara Holts participated with the National Museum of Health and Medicine Foundation, Inc., in promoting the new museum project at PEPCO. The Museum also participated in the AFIP Health Fairs.

## VOLUNTEERS

The volunteers in 1995, other than docents, include student interns and volunteers of all ages who contribute their time and talents to assisting with the collections, staffing the Discovery Carts, researching exhibition topics, and producing curriculum for educational activities. The approximate number of hours contributed by these generous individuals were 2,208.

## HANDOUTS (BROCHURES WITH EXHIBITIONS)

A Discovery Sheet was completed for high school students to be distributed to teachers in advance of a Museum visit. A second version of the Discovery Sheet was developed for junior high visitors. This handout is targeted for unscheduled tour groups comprised predominantly of students in grades 7-9. The Discovery Sheet is available at the Information Desk and is frequently used by families visiting the Museum.

## PUBLIC PROGRAMS

The Public Program Committee, chaired by Kathryn Foat, continues to guide the development of a range of programs and events offered at the Museum. Surveys conducted at the end of each film or lecture provided information about the participants, particularly where publicity was successful.

*Programs offered in 1995 included:*

"Caring for the Mentally Ill: Retrospect and Prospect," a showing of the film and lecture by Dr. Gerald Grob, Institute for Health Care Policy and Aging Research, Rutgers University.

Date: February 2, 1995

Attendance: 177

"Body Perfect?"

Part I lecturer: Dr. Cayo Gamber, adjunct assistant professor of English, George Washington University; "The Marketing of Men's and Women's Bodies in Contemporary Culture: The Lure of Bodies, Belly Buttons, and Boycotts."

Date: April 27, 1995

Attendance: 72

Part II lecturer: Dr. James Gray, professor of psychology, American University, "The Media Presentation of Female Thinness and the Epidemic of Eating Disorders."

Date: May 2, 1995

Attendance: 60

"HIV 101"

Lecturer: Metro TeenAIDS staff/volunteers

Date: July 21, 1995

Donation: Ben and Jerry's Ice Cream and Frozen Yogurt in Adam's Morgan provided yogurt

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bars for a snack.

Attendance: 57

**"AIDS RAP Session"**

Lecturer: Metro TeenAIDS staff/volunteers and Dr. Sarah Frankel, AIDS Pathology, AFIP.  
Date: August 26, 1995

Donation: Armand's Pizzeria donated pizzas for lunch.

Attendance: 12

**"Medical Imaging"**

Film: *The Diagnostic X-ray: Its Birth and Early Years*

Lecturer: Dr. James Smirniotopoulos, Department of Radiology, AFIP, USUHS.

Admission: \$5 per person

Date: September 26, 1995

Attendance: 14

**Part I: "Legacy of Louis Pasteur"**

Lecturer: Professor Claude Hannoun, Institut Pasteur.

Date: October 19, 1995

Attendance: 21

**Part II: "Pasteur in Practice: Food Science and Public Health"**

Lecturer: Suzanne White-Junod, Ph.D., US Food and Drug Administration.

Date: November 2, 1995

***Ongoing programming:***

Discovery Carts: The Brain

Volunteer recruiting was conducted in the summer and training completed during the fall. As a pilot test, the cart is scheduled for one or two Saturdays from 11:00 a.m. to 1:00 p.m. each month. In 1996, additional staffing will become available to provide a consistent Saturday schedule.

## PROMOTION

**Events:**

**"Educators' Open House"**

Date: March 7, 1995

Attendance: 15

**"Tour Guides' and Tour Bus Operators' Open House"**

Date: August 29, 1995

Attendance: 59

**Media:** Listings for public programs and ongoing listings of the Museum's exhibitions were successfully placed in the local newspapers, including *City Paper*, the *Washington Post*, the *Stripe*, and *Pentagram*.

Dick Levinson coordinated interviews for Dr. Marc Micozzi with the *New York Times*, *Nature*, *Science*, *Memphis Commercial Appeal*, *Consumer Reports*, *San Jose Mercury News*, *American Health Magazine*, *Glamour*, *Vegetarian Times*, and *Longevity Magazine*.

Television stories included: *Hard Copy*, *Extra*, *Entertainment Tonight*, *Fox Morning News*, Public Broadcasting System's *The Doctor is In*, *Good Morning America*, *City Line TV*, NBC's *Dateline*, and the Regional Canadian Broadcasting System.

Information or interviews were provided for BBC, CNN, and Fox.

## EXHIBITIONS

The Museum continued to develop both temporary and long-term exhibition projects during 1995 as well as to provide basic environmental upgrades to the visitor experience.

*Living in a World with AIDS:* In February, the Museum opened this significantly revised exhibition. The new exhibit covers not only the medical aspects of HIV/AIDS, but also how society has coped with this challenging syndrome. Two interactive computer programs, developed through the National AIDS Exhibit Consortium, of which the Museum is a founding member, have been added to the gallery floor. A video theater, devoted to issues surrounding HIV testing, targets the difficult-to-serve audience of teenagers by using an educational video developed by and for teens. The installation has been enriched with additional artifacts, many of which were collected expressly for this upgrade. This major revision called upon a majority of Museum staff and numerous AFIP departments. Funding for this effort was provided by the Centers for Disease Control and Prevention through the National AIDS Exhibit Consortium.

*The National Museum of Health and Medicine: Dedicated to Health from the Civil War to the 21st Century:* This exhibit was developed and designed over the summer and fall with an anticipated installation date in early 1996. The exhibit will orient visitors to the Museum and AFIP by providing information about their past history, current efforts, and anticipated future on the Mall. This exhibit emphasizes not only public health efforts but also research accomplishments such as 19th century photomicrography and the current dissemination of medical imagery on the internet. A video, under development by the Public Programs Office, will augment the exhibit.

*In the News: ALS:* The Museum launched a new changing exhibit program titled "In the News." A flexible format was established for addressing issues currently receiving news coverage. The first exhibit parleyed the news coverage of baseball player Cal Ripken breaking Lou Gehrig's record for consecutive games played into an exploration of Lou Gehrig's disease, or ALS. Future "In the News" exhibits are anticipated.

*Civil War Medical Illustration:* This exhibit, initially installed in December of 1994, used drawings, prints, and photographs from the Civil War to explore the techniques of medical illustrators during the Civil War. Light-sensitive materials were rotated out in December of 1995, and a new selection of images and artifacts were placed on display.

*Under the Skin: Microscopic Findings by Marilyn J. Koering:* This temporary exhibit, installed from 10 May to 26 November, displayed scanning electron microscope images taken by Dr. Koering. An explanation of SEM technology, along with the display of SEM stubs, enhanced the installation.

*Pasteur: His Life and Work:* This temporary exhibit, installed 13 December, chronicles the scientific achievements of Louis Pasteur and is part of a centennial exposition sponsored by the Pasteur Foundation. A 30-minute video, "Pasteur: A Contemporary View," along with two brochures, accompanies the exhibit.

*Collections Care:* Exhibits staff has worked with the newly hired Museum conservator to implement an upgraded program for protecting artifacts on display. The conservation needs for exhibits are being assessed, and new guidelines and priorities have been established.

*Exhibits Committee:* An Exhibits Committee was established in June, chaired by Lisa Berndt, pulling membership from all Museum departments, including the Museum Foundation. The committee's mission is to establish exhibit schedules, monitor staff time allocation, and insure resonance between the current exhibit program and the Museum's long-term goals.

*Grants:* The Museum has been awarded a \$40,000 National Institutes of Health grant for the National Health Science Consortium and the University of Maryland to develop a prototype exhibit unit focussing on pregnancy and fetal development. This exhibit unit will be displayed at the Maryland Science Center, Baltimore, and will factor in the planned development of a traveling exhibition on women's health to be developed by and circulated within the Consortium. Lisa Berndt is serving as project coordinator for the Museum as well as designer for the project.

Kathryn Foat successfully completed a minigrant totaling \$500 from the District of Columbia Humanities Council. The grant provided an honorarium, use of the 1988 documentary "Asylum," and printing of flyers for an evening program. The American Psychiatric Foundation contributed travel and boarding expenses for the speaker for a total of \$219.80.

## COLLECTIONS MANAGEMENT BRANCH

### MISSION

The Collections Management Branch preserves materials representing the broad subject areas related to the history and practice of American medicine, federal medicine, and modern medical and health issues and research. The division provides the highest level of professional care for the NMHM collections and their associated documentation; collects objects, specimens, and related archival materials deemed significant and relevant to the mission of the NMHM; and supports research, exhibits, and public programs through access to collections.

### ORGANIZATION

The branch is comprised of three collecting divisions and the Offices of the Conservator and the Registrar. The Anatomical and Pathological Collections, Historical Collections, and Otis Historical Archives encompass the collecting divisions.

### STAFF

- Alan Hawk, B.A., Collections Manager
- Donna Scorzelli Quist, B.A., Collections Technician
- Joan Redding, M.S., Assistant Archivist
- Michael Rhode, B.A., Archivist
- Paul S. Sledzik, M.S., Curator
- (A) Christina Sweet, M.S., Conservator
- (A) Jon Zachman, B.A., Registrar
- Interns: Helen Cho, Stephanie Lehman, Melanie Walzberg
- Volunteers: Marcy Leverenz, Sol Pargament, Markus Ring

Christina Sweet joined the staff in February to serve as conservator for the NMHM collections. She is reviewing and prioritizing the collections for conservation needs and providing conservation treatments when required. She is working with the staff to implement conservation guidelines for the care, moving, storage, and exhibition of collections.

Jon Zachman joined the staff in March as registrar. He is reviewing the Museum's existing collections management policies and implementing new procedures relating to acquisitions, loans, exhibitions, and off-site storage.

### COLLECTIONS MANAGEMENT

The Collections Committee completed collecting agendas for three areas. These documents provide intellectual organization to the current and future collecting plans. Biweekly meetings of the Collections Management Committee address issues of curation, collections management, acquisition, and related collections issues. The tasks of inventorying and cataloging continued. A *Guide to the Collections of the NMHM*, originally started as a guide to the archival collections, neared completion. Joan Redding provided editing skills to correctly format the information on each of the museum collections.

*Anatomical Collections:* Several small collections within the division were inventoried this year. Additions were made to the Civil War skeletal data base, and editing began on the first half of the data base.

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*Historical Collections:* The computerized inventory of artifacts now includes 13,872 artifacts, approximately 98% of Historical Collections. The artifacts included are listed by catalog number, accession number, classification based on Medical Subject Headings, object name, and location. The Historical Collections Computer Catalog, which differs from the inventory by containing a more detailed description of the artifact, now includes 8,329 artifacts, approximately 58% of the collection. The 460 items cataloged in 1995 include new accessions, previously accessioned artifacts, and artifacts going out on loan.

*Otis Historical Archives:* The computerized inventory and finding aid project started in 1989 is partially complete. The inventory of Archives collections is nearly complete, except for new collections. Joan Redding processed and wrote finding aids, arranged and rehoused the Hollister collection, Micozzi papers, and other collections; and rearranged and ordered the oversized material stored in map cases. She and Michael Rhode cataloged additions to the Medical Ephemera, New Contributed Photographs, AFIP Historical Files, and General Medical Products Information collections. Ms. Redding wrote a finding aid for the 28 boxes of Army Medical Museum collection log books. Mr. Rhode wrote an 11-page article, "Hospital Ships Material in the National Museum of Health & Medicine." A researcher wrote a short list of the WRAIR Korean War photographs, which can be used as a finding aid. Marcy Leverenz, a volunteer, cataloged 469 videotapes transferred from OAFME, Veterinary Pathology, and WRAMC-TV. She is also arranging and updating the finding aid for the Medical Ephemera collection.

#### OFF-SITE STORAGE FACILITY

During the past year, the Museum made significant progress in addressing collection management needs at its off-site storage facility in Gaithersburg, Md. Storage equipment, including racking and shelving, was purchased for the facility to provide greater access to collections while ensuring a safe and secure environment. Installation of this equipment will occur in the first quarter of the 1996. Individual artifacts and collections from each divisions have been surveyed and labelled. Rehousing priorities for the long-term preservation have been established for all four collecting divisions. Rehousing projects were completed on the Shupe Collection of anatomical material and the records, slides, and tissue blocks of the Blackburn Collection. Rehousing of the Lindenburg Collection is currently underway. A log of shipments to the warehouse was initiated in the past year, along with an inventory of all materials stored there. This information will be maintained in a centralized data base.

#### ACQUISITIONS

The three collecting divisions and the Art Conservation Studio needed to have tears and flaking paint mended.

#### LOANS

A total of 73 branch objects were loaned in 1995. This includes 54 anatomical specimens, 8 pieces from the Otis Historical Archives, and 11 artifacts from the Historical Collections.

Institutions that received this material included the Armed Forces Institute of Pathology (lobby case); the Corpus Christi Museum of Science and History; the Ft. Ward Museum and Historic Site (Alexandria, Va.); France Casting (Bellvue, Colo.); Greystone History Emporium and Gallery (Gettysburg, Pa.); the Longwood-Mathews Mansion Museum (Norwalk, Conn.), for their exhibition entitled "Heroes of the Home Front; Life North of the Battlefield"; the National Library of Medicine; the United States Holocaust Memorial Museum, for their exhibition entitled "Liberation"; and the University of Iowa Hospitals and Clinics Medical Museum, for their exhibition entitled "Order and Disorder: An Exploration of the Mind."

Prior loans were extended to the Calvert Marine Museum (Solomons, Md.); the Franklin Institute of Science Museum (Philadelphia, Pa.), for its traveling exhibit "It's All in Your Head"; and the Department of Pathology at the Uniformed Services University of the Health Sciences.

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Additional loan negotiations are presently underway with the American Academy of Neurology for an exhibit entitled "Training the 19th Century American Neurologist"; Glaxo Inc. for a traveling exhibition titled "Medicine--The Inside Story"; the National Park Service for an exhibit on the Public Health Service at the Ellis Island Immigration Museum; Norman Publishing to reprint a 19th Century trade catalog; and the Strong Museum for the traveling exhibit "Altered States: Alcohol and Other Drugs in America."

## REPATRIATION

As required under Public Law 101-601, the Native American Graves Protection and Repatriation Act (NAGPRA), the Museum notified all the appropriate Native American tribes and Native Hawaiian organizations regarding unassociated funerary objects, sacred objects, objects of cultural patrimony, and human remains in the Museum's holdings. The deadline of November 16, 1995, for human remains inventories to be completed was met. A total of 241 human skeletal specimens were inventoried. These specimens consisted of 148 prehistoric specimens, 77 historic period specimens, and 16 unaffiliated specimens. Nearly all specimens exhibit some pathological condition.

As of December 1995, no Native American organizations have formally requested repatriation of any funerary objects, sacred objects, or objects of cultural patrimony. The Museum was contacted by the Navajo nation, who claimed a medicine bundle as a sacred object essential in contemporary religious ceremonies. Based on the Museum's documentation, the affiliation of several pieces thought to be associated with the bundle remains uncertain. The Navajo nation's official claim to repatriate the piece has been postponed until the Northern Cheyenne make a determination. The Historical Collections contain 43 objects of Native American origin, only 8 of which are covered under the NAGPRA.

## RESEARCH REQUESTS

The Historical Collections received 83 telephone and written inquiries. The Anatomical Collections received 73 written and telephone inquiries. These requests included information on a variety of topics related to the history of medicine, forensic sciences, and collection objects or specimens.

The Archives received 179 requests for information this year, excluding AFIP requests, visitors, or referrals to other institutions. The number of requests increased slightly from last year. Researchers were affiliated with the Smithsonian Institution, the BBC, CNN, Tokyo Broadcasting, Greystone Productions, the National Archives, the Dittrick Museum of Medical History, Der Spiegel, the University of Pittsburgh, the National Park Service, the Northern Cheyenne Cultural Commission, the Department of Energy's Office of Human Radiation Experiments, ABC News, the University of Iowa Hospitals and Clinics, *Dateline NBC*, the *Journal of American History*, Harvard University, George Washington University, and the Art Institute of Chicago, among other institutions. The 50th anniversary of the atomic bombing of Hiroshima and Nagasaki continued to bring interest in the Otis Archives' atomic bomb material. The Vorwald Collection of industrial medicine material continued to receive heavy use, primarily by law firms.

## EXHIBITION SUPPORT

Division staff provided script and label writing, research support, processing of incoming loan agreements, object condition reporting, conservation treatments when necessary, and light level surveys of several in-house exhibits and temporary exhibitions. These included "Under the Skin: Microscopic Findings by Marilyn Koering"; "Louis Pasteur: His Life and Work;" and "In the News... What is Lou Gehrig's Disease?" Staff support was also provided for an off-site exhibition at the Pentagon.

Michael Rhode rewrote the "Civil War Medical Illustrations" exhibit, with the assistance of Paul Sledzik. Mr. Rhode is also updating sections of the Civil War Medicine exhibit. The American Society of Clinical Pathologists 1992 Photography Competition photographs were framed and

placed on exhibit in the Museum in 1994 and carried into 1995; the introductory panel was written by Joan Redding. Ms. Redding and Sarah Carey wrote the script and selected artifacts for the "Institutional History" exhibit.

On September 20, 1995, Alan Hawk traveled to Montreal, Canada to meet with the board of directors of the American Association of Electrodiagnostic Medicine and the American Association of Electrodiagnostic Medicine Foundation. As a result of the meeting, the foundation agreed to provide \$22,000 toward an exhibit at the National Museum of Health and Medicine about electromyography and its impact on society.

## PROFESSIONAL ACTIVITIES

In addition to responsibilities involving collections management, the staff of the Division of Collections Management participated in educational activities, professional meetings, public lectures, and scientific projects and provided support to the Office of the Armed Forces Medical Examiner.

### *Anatomical Collections*

Mr. Sledzik and Dr. Falsetti provided support through the National Disaster Medical System of the Public Health Service for morgue operations following the bombing of the Murrah Federal Office Building in Oklahoma City. Dr. Falsetti and Mr. Sledzik lectured at the Mass Fatality Incident Response Train-the-Trainer Course at the Emergency Management Institute, Federal Emergency Management Agency. This is part of a continuing effort to promote the role of forensic anthropology in mass fatality incidents. The Eighth Annual NMHM/AFIP Forensic Anthropology Course was held at the Uniformed Services University of the Health Sciences.

A court hearing was held in May in Baltimore concerning the remains of John Wilkes Booth. Museum staff testified about the role of the Army Medical Museum in Booth's autopsy and the authenticity of the Booth vertebrae in the museum collection. The hearing was held to determine if Booth's remains should be exhumed and examined for reasons of identification. The judge in the case declined the request for exhumation.

### *Conservation and Registration*

Michael Rhode, Jon Zachman, and Christina Sweet attended a "Moving Archives" symposium sponsored by the National Archives. Ms. Sweet represented the Museum at the Annual Meeting of the American Institute for Conservation of Historic and Artistic Works. Jon Zachman attended the annual meetings of the American Association of Museums and the Smithsonian Institution's Registrar's Council. Ms. Sweet helped lead a Curatorial Methods Training Course, sponsored by the Center for Military History. Mr. Zachman was invited by the Smithsonian Institution's National Museum of American History to supervise a team that surveyed a major collection of folk art in Puerto Rico.

### *Historical Collections*

Alan Hawk was asked to be guest editor for an issue of the journal *Caduceus* entitled "Spoils of War," to be published in 1996. This issue will be devoted to the history of materiel medical intelligence from the Second World War to the Persian Gulf War and the collections of captured medical instruments in the National Museum of Health and Medicine and the Army Medical Department Museum in Ft. Sam Houston. Contributors to this issue will include SFC Everett Bivens of the Foreign Materiel Intelligence Branch at Aberdeen Proving Grounds; George Sharpe, M.D., docent at the National Museum of Health and Medicine and an Army doctor in the Pacific Theatre during the Second World War; Thomas McMasters, curator of the Army Medical Department Museum; and Dr. Robert Joy, Uniformed Services University of Health Sciences. Mr. Hawk is the secretary/treasurer for the Washington Society of the History of Medicine and the vice-president of the Medical Museums Association.

### *Otis Historical Archives*

Michael Rhode began work with Dr. Blair Rogers on a book of the Museum's Civil War photographs.

The book will be published in late 1996 by Duke University Press. Mr. Rhode also wrote an introduction to a reprinting of an Army Medical Museum publication, *Photographs of Surgical Cases and Specimens*. This reprint of 400 photographs, published by the Museum between 1864 and 1881, is being published privately in 1996. The AFIP Oral History ended this year, and the material has been arranged and a finding aid created to facilitate research. A film from the archival collection, *The Diagnostic X-ray: Its Birth and Early Years*, was shown as part of the Museum's public program efforts.

Joan Redding completed a USDA course on editing. Mr. Rhode and Ms. Redding attended the Society of American Archivists convention in Washington in the fall. As a member of the Steering Committee of the DC Picture Group, Mr. Rhode organized meetings and maintained the institution's membership data base.

## MEDIA REQUESTS

Several artifacts from Historical Collections were featured in documentaries. One film, *Josef Mengele--The Final Account*, featuring German World War II medical instruments from the collections premiered on the Discovery Channel on December 15, 1995. The x-ray machines on exhibit in the museum gallery served as the backdrop for Globsat-Brasil's TV magazine, *Scientia*, commemorating the centennial of the x-ray.

Collection materials from the Anatomical Collections were featured on *Civil War Journal* (A&E Channel), Powderhouse Productions (segment for Discovery Channel), Fox Television (Sightings), New Dominion Pictures (segment for Discovery Channel), Connecticut Public Television, and Greystone Communications (segment for A&E Channel and History Channel).

## PUBLIC PRESENTATIONS

"Vampires: The Truth Behind the Legend," Montgomery County Historical Society, Rockville, Maryland, Paul Sledzik.

"Biological Anthropology and the Civil War: Current Research at the National Museum of Health and Medicine," Civil War Roundtable, Frederick, Maryland, Paul Sledzik.

"Civil War Medicine," Smithsonian Resident Associate Program, Washington, D.C., Paul Sledzik.

"Historic Puzzles and Modern Crimes," Johns Hopkins University, School of Continuing Studies, lecture series entitled "The Dead Do Tell Tales: Forensic Science and the Solving of Mysteries," Baltimore, Maryland, Paul Sledzik.

## PROFESSIONAL PRESENTATIONS

February 5, 1995: Washington, D.C., Society for Historical Archeology, "The Human Remains from the St. Mary's City Lead Coffins," Douglas Owsley and Paul Sledzik.

February 17, 1995: Seattle, Washington, American Academy of Forensic Sciences Annual Meeting, "When the Dead Return: The Hardin Cemetery Disaster (Parts 1 and 2)," Paul Sledzik and David Hunt.

February 17, 1995: Seattle, Washington, American Academy of Forensic Sciences Annual Meeting, "The 1993 Mexican Forensic Anthropology Course: Networking and NAFTA," Frank Saul, Julie Saul, Luis Vargas, M. Rodriguez, Lourdes Morfin, Marc Micozzi, and Paul Sledzik.

March 15, 1995: Nashville, Tennessee, National Disaster Medical System Annual Meetings, "When the Dead Return: The Cemetery Flood Disasters of 1993/1994," Paul Sledzik.

May 12, 1995: Pittsburgh, Pennsylvania, American Association for the History of Medicine, "Re-Engineering the Body: Joint Prostheses in the Human Body," Alan Hawk.

June 7, 1995: Little Rock, Arkansas, State of Arkansas Office of Emergency Services Mass Fatality Incident Management Course, "Forensic Anthropology in Mass Fatality Incidents," Paul Sledzik.

September 11, 1995: San Juan, Puerto Rico, Second Annual Caribbean Forensic Sciences Conference, "Forensic Anthropology and Mass Disasters: Recent Experiences," Paul Sledzik.

October 14, 1995: Baltimore, Maryland, B&O Railroad Museum lecture series: In the Vise: The Baltimore and Ohio Railroad and Maryland in the Civil War, "An Ambulating Hospital: the Hospital Trains of the U.S. Army during the Civil War," Alan Hawk.

## PUBLICATIONS

### *Journal Articles*

1. Rhode M. Photography and the Army Medical Museum, 1862-1945. *Architext*. 1995;4:2.
2. Rogers BO, Rhode M. The first civil War photographs of soldiers with facial wounds. *Aesthetic Plast Surg*. 1995;269-283.

In addition, three articles are in press.

### *Books and Chapters*

1. Redding J, Vogt O'Connor D. *Guide to Photographic Collections at the Smithsonian Institution. IV: National Air and Space Museum*. Washington, DC: Smithsonian Institution Press; 1995.
2. Micozzi MS, Sledzik PS. Postmortem preservation of human remains: natural and technical processes. In: *Proceedings of the First World Congress on Mummy Studies*. Tenerife, Canary Islands: Museo Archeologico-Etnografico de Tenerife; 1995:2:9-764.
3. Sledzik PS, Micozzi MS. Postmortem preservation of human remains: cultural actions. In: *Proceedings of the First World Congress on Mummy Studies*. Tenerife, Canary Islands: Museo Archeologico-Etnografico de Tenerife; 1995:2:867-872.

In addition, five chapters are in press.

## RESEARCH AND DEVELOPMENT

### MISSION/ORGANIZATION

The branch is responsible for the use of rigorously compiled research collections to promote scholarly study of Museum resources. Most of the collections are serially sectioned slides, although they include complementary items such as records, radiographs, models, photographs, and documentary materials. The principal collections are those housed at the Human Developmental Anatomy Center and the Yakovlev-Haleem Neuroanatomy Collection. The staff organizes all activities with these collections to promote research, education, and exhibition, often using high-performance computer technologies.

### STAFF

- William Discher, B.A., Imaging Specialist  
(A) Anthony Falsetti, Ph.D., Acting Assistant Director for Research  
(A) Archibald J. Fobbs, B.S., Curator of Neuroanatomy  
Elizabeth Lockett, B. A., Imaging Specialist  
Adrienne Noe, Ph.D., Assistant Director for Collections and Research

## Volunteers

**Edward Beeman, M.D., Shawn Garrard, Jason Geiger, M.D.,  
Stephen Schiaffino, Ph.D.**

The Research and Collections Branch comprises the Human Developmental Anatomy Center and the Yakovlev-Haleem Neuroanatomy Collections. It coordinates the National Museum of Health and Medicine's high-performance computing activities. Throughout the year, it has continued to expand research collections in order to organize and coordinate work on a growing number of the world's major human and comparative developmental collections and neuroanatomy materials in a facility to support research on Museum holdings. Although the Carnegie Human Embryology Collection remains the core of the Anatomy Center holdings, significant materials have been added, including the George Sedgwick Minot human embryology materials from Harvard University.

In the neuroanatomy section, additions are the Adolph Meyer collection of serially sectioned brain preparations, the Isobel Lockard Comparative Mammalian Brain Collection, and the Wally Welker Comparative Neuroanatomy Collection (from the Department of Neurophysiology, University of Wisconsin). In addition, the papers of Mr. Mohammad Haleem, former curator, were added to the collections. The section has begun a vigorous effort to promote the preservation of its specimens. Monitoring of container fluid takes place on a regular basis, and fluids are changed as necessary. In addition, deteriorating documents are being rehoused.

The branch continues to be an active research site for outside researchers. The HDAC hosted 120 researcher days; the neuroanatomical collections hosted approximately 300 days. Within the branch, over 80 individuals pursued research projects on site, and increasing numbers are taking advantage of electronic image transfer protocols to complete research at 25 remote research sites, including sites overseas. Some of these sites include the University of Illinois at Urbana-Champaign, Johns Hopkins University, the University of Washington, the University of Wisconsin, the University of Maryland, Michigan State University, and the National Institutes of Health. Other individuals researching in the collections include investigators from the National Zoological Park of the Smithsonian Institution, the Johns Hopkins University, the Children's National Medical Center, and the J. B. Johnston Group of the Neuroscience Society. Thirty-seven groups toured the collections.

Research subjects continue to range from embryo studies in preparation for in utero surgical procedures, organogenesis, and structural spatial translation to descriptive anatomical and historical studies. With funding from the National Institutes of Health and the National Science Foundation, several World Wide Web pages are under development to provide information about and access to the Museum's holdings. Projects under development include collaborations with the Johns Hopkins University and Systems Planning and Analysis, Incorporated.

The Human Developmental Anatomy Center is completing a third year-long contract activity with the National Institutes of Health to use serially sectioned embryos for three-dimensional computer-based reconstructions with identified organ systems for electronic distribution to, and evaluation by, a number of agencies and academic sites. The staff has continued to refine computer-based inventories for researcher use and as a proof of concept project for high-resolution image archiving collaborations. Electronic distribution has now been extended by virtue of its World Wide Web presence, an effort aided by staff of the Visible Human Project at the National Library of Medicine. The embryo project is funded by the National Institute of Child Health and Human Development, the National Center for Research Resources, and the Office of Research on Women's Health. Images and unique techniques developed to enhance their use will also be made available via exhibition in an ORWH-funded exhibition prototype grant received by the Museum via the University of Maryland and the National Health Exhibits Consortium, of which the Museum is a member.

The center has continued to use its collections to support emerging medical technologies by participating with scientists at Duke University Medical Center in its magnetic resonance microscopy projects and with others refining ultrasonography techniques. Both projects rely on the large-scale

development of distributable image sets. The National Science Foundation has awarded the Museum a grant, in conjunction with the University of Wisconsin and the Michigan State University, to apply some of the imaging technologies developed for the embryo collection to the Yakovlev-Haleem materials. Numerous other grant recipients plan to access materials from the branch for their work on a fee-for-service basis. Several additional grant applications have been completed and filed by staff, including a study of lower-limb anatomy and traumatic injury among female and male basic trainees using osteometric, anthropometric, and kinematic analyses (A. Falsetti, principal investigator) and an anthropometric survey and cross validation of fetal alcohol syndrome cases (A. Falsetti, principal investigator).

Branch staff has provided significant support to other Museum activities, including the provision of computers and computer technology for web-site development, and extensive participation in an innovative exhibition program. Archibald Fobbs served as curator for the Museum's initial "In the News" exhibition, to consist of a rapidly renewed series of cases about current medical issues. With extensive and generous support from the Institute's Department of Neuropathology and help from other federal and non-profit agencies, the Museum opened its exhibition on amyotrophic lateral sclerosis. The branch will also support other larger-scale exhibition efforts.

Staff member Anthony Falsetti assisted on two major medical examiner teams and was formally recognized for his work by the National Disaster Medical System of the Public Health Service. He was also named to the Executive Committee of the American Dermatoglyphics Association and passed professional board examinations to become a diplomate of the American Board of Forensic Anthropology. Adrienne Noe was named fellow of the Aerospace Medical Association and serves on the editorial board of the medical historical journal *Caduceus* and of the scientific imaging journal *Panopea*. Staff members serve on numerous Institute committees and task forces.

#### PRESENTATIONS

- January 1995: Course codirector and lecturer, AFIP/ARP Telemedicine Course, Orlando, Florida, "Electronic Image Archives in Research," A. Noe.
- February 1995: Represented the Museum and development of "Life at the Limits" exhibition project, Hypoxia Symposium, Lake Louise, Alberta, A. Noe.
- May 1995: Panel chair and presenter, "History of Air Force Medicine"; Lecture: "Altitude Research and NMHM Exhibition Development," History and Archives Committee, Aerospace Medical Association, Anaheim, California, A. Noe.
- May 1995: Conducted annual meeting and presided over related activities, Medical Museums Association (as president), Pittsburgh, Pennsylvania, A. Noe.
- June 1995: Hosted talk, tour, and book signing, American Medical Women's Association, Washington, D.C., A. Noe.
- June 1995: Faculty member and speaker, Federal Aviation Association course, "Medical Aspects of Aircraft Accident Investigation," Oklahoma City, Oklahoma, A. Falsetti.
- July 1995: Course codirector, 8th Annual NMHM/AFIP/ARP Forensic Anthropology Course, A. Falsetti.
- July 1995: Environmental Hazards Assessment Program, Medical University of South Carolina, Charleston, South Carolina, "The National Museum of Health and Medicine in Perspective and Projection," A. Noe.
- September 1995: Lecture, AFIP/ARP Radiologic Pathology Course, A. Falsetti.
- September 1995: Lecture, Office of Emergency Preparedness Mass Fatality Incident Command Course, Emmitsburg, Maryland, A. Falsetti.
- October 1995: Lecture, State University of New York, "Forensic Anthropology," Stony Brook, New York, A. Falsetti.
- October 1995: Lecture, Department of Anatomy, Uniformed Services University of the Health Sciences, "Functional Anatomy of the Human Knee," Bethesda, Maryland, A. Falsetti.

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October 1995: Lecture, Society of Medical Consultants to the Armed Forces, "The History of the Future of Medicine," A. Noe.

November 1995: Lecture, School of Information and Library Science, University of Michigan, "Medical Informatics and History," Ann Arbor, Michigan, A. Noe.

## PUBLICATIONS

1. Falsetti A. Sex assessment from metacarpals of the human hand. *J Forensic Sci.* 1995;40:773-775.
2. Falsetti A, Holliday TW. Lower limb length of European early modern humans in relation to mobility and climate. *Journal of Human Evolution.* 1995;29:141-153.
3. Falsetti A, Jungers WL, Wall CE. Ratios and residuals in the analysis of size and shape: a reconsideration and some recommendations. *Yearbook of Physical Anthropology.* 1995;38:137-161.
4. Falsetti A, Smith FH, Simmons T. Circum-Mediterranean biological connections and the pattern of late Pleistocene human evolution. In: Ulrich H, ed. *Man and the Environment in the Paleolithic.* E.R.A.U.L 62, Liege;1995:197-207.

In addition, two items are in preparation.